

Garrett Barboza

Experience

Work

- October 2011–Present **Co-Founder & Engineer, Kaprica Security.**
Co-Founded a cyber security startup focused on smart solutions to hard problems.
- o Lead development on Tachyon, an enterprise solution for Android device configuration. Designed and implemented software and infrastructure to enable reproducible, scalable, and robust mass configuration of Android devices. This included a domain-specific language, interpreter, and tooling for specifying the configuration of device; a backend HTTP API; and portions of a client facing website. Directed and assisted two other engineers responsible for ancillary components.
 - o Developed the challenge corpus for DARPA's Cyber Grand Challenge. Regularly produced medium-sized C & C++ programs with no external libraries that included intentional security vulnerabilities designed to only be exploitable under controlled circumstances. Each challenge also featured documentation, unit tests, and proof of exploitability.
 - o Developed the Skorpion Charger, a hardware based solution for Android security. Implemented initial POC on hobbyist hardware platforms. Developed and debugged our software on a custom engineered device. Developed the backend API that supported the website and communications from the hardware device.
- Summer 2011 **IS & GS Security Intern, Lockheed Martin, Arlington, VA.**
Worked in Internal Research and Development with a focus on embedded systems from a security standpoint. Researched attack surfaces that could enable an attacker to reduce usability of a system. Completed proof of concept and report on findings at conclusion of the internship.
- Summer 2010 **Software Engineering Intern, Bay Controls, Maumee, OH.**
Developed an Android application to remotely control internet enabled thermostats.
- o Integrated application with existing infrastructure.
 - o Designed and implemented Android application from scratch over the course of the summer.
- September 2010- Present **Plaid Parliament of Pwning.**
Participated in tens of Capture the Flag security competitions. Gained experience examining, attacking, and securing a diverse set of computer applications and systems. Consistently ranked one of the top three teams out of hundreds over the course of 5+ years.

Other

Education

- 2009–2013 **BSc Computer Engineering, Carnegie Mellon University, Pittsburgh, PA.**
Minor in Computer Science

Skills

- Specialties Software Security, Software Architecture, Systems Programming, Web Programming, Compilers
- Programming Languages Python, C, Haskell, x86 & x86-64 Assembly, JavaScript
- Frameworks Flask, Celery, SQLAlchemy, AngularJS, ReactJS, AWS
- Tools git, Linux, IDA Pro, PostgreSQL, Redis, American Fuzzy Lop, Shell Scripting

201 Lavaca St. Apt 607 – Austin, TX 78701 – United States

📞 +1 (419) 205 4465 • ✉️ garrett@garrettbarboza.com